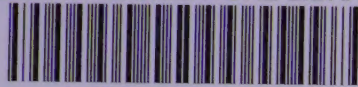


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11 annual
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ALBERTA DEPARTMENT OF AGRICULTURE

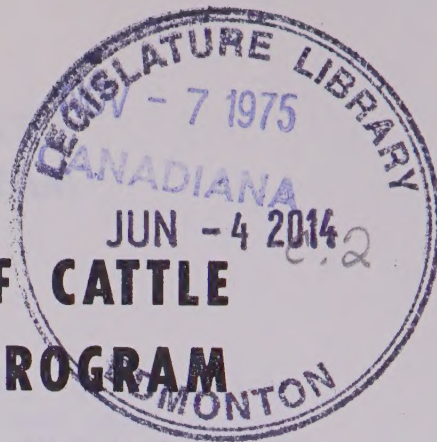


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FEDERAL-PROVINCIAL BEEF CATTLE PERFORMANCE TESTING PROGRAM

ALBERTA SECTION



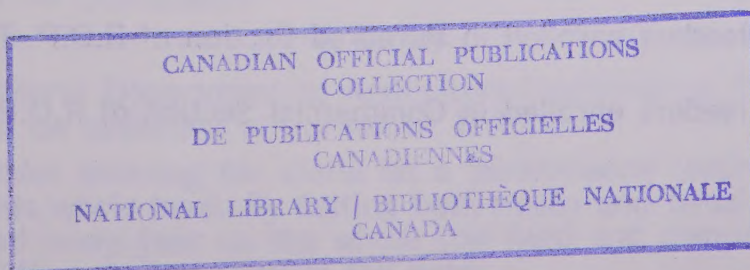
11th Annual Report

(1969 - 1970)

**ANIMAL INDUSTRY DIVISION
ALBERTA DEPARTMENT OF AGRICULTURE**

by

J. S. LORE P.Ag., K. C. DAVIES P.Ag.



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FEDERAL-PROVINCIAL BEEF CATTLE PERFORMANCE TESTING PROGRAM

ALBERTA SECTION

11th Annual Report

The Alberta Beef Cattle Performance Testing committee was established to evaluate the results of experimental work done on performance testing, breeding and feeding, and to outline the Alberta program within the framework of the Federal-Provincial Beef Cattle Performance Testing Program.

Alberta Beef Cattle Performance Testing Committee

W. C. Gordon	-----	Chairman
J. S. Lore	-----	Secretary
O. Hart	-----	Alberta Aberdeen Angus Association
H. Ulrich	-----	Alberta Hereford Association
R. Sharp	-----	Alberta Shorthorn Association
R. Copithorne	-----	Western Stock Growers Association
Dr. R. Berg	-----	University of Alberta
K. C. Davies	-----	Alberta Department of Agriculture
V. Macdonald	-----	Canada Department of Agriculture
S. Ewing	-----	Alberta Beef Cattle Performance Association
J. Golley	-----	Alberta Charolais Association
J. Airth	-----	Alberta and B.C. Galloway Association

The Alberta Performance Testing Program is financed from the Horned Cattle Trust Fund which is composed of a tax on horned cattle.

INTRODUCTION

In Alberta the Federal-Provincial Beef Cattle Performance Testing Program includes all classes of cattle used for beef production.

In addition to the home test, where most of the cattle are tested, there are performance and progeny test stations operating in Alberta. These stations are approved by the Alberta Performance Test Advisory Committee, after the Committee is satisfied the station meets certain standards regarding equal opportunity for all breeds of cattle.

Performance and Progeny Test Stations

1. Alberta Beef Cattle Performance Association (Master Feeds Research Station) — Bassano.
2. Orrin Hart — Claresholm.
3. Bar Fifteen Performance Test Station (Wes Alm) — Claresholm.

The Alberta Department of Agriculture Performance Test Station at Ellerslie will be operating in the fall of 1970.

A breeder entering his cattle on a performance testing program should enter his whole herd. By testing both males and females, records can be secured every year on the whole cow herd and comparisons can be made on different sires used in the herd.

The main objective in this program is to identify the consistently fast growing and slow growing cattle in each herd and, thereby, enable the breeder to select from rate of gain and consistent production, in addition to selection factors he is now using. In so doing, select seed

stock will be available that should transmit faster gain-ability and more consistent reproduction into commercial herds. To accomplish this objective of breeding for general utility requires a continuous testing program for the entire herd.

Research done on feed efficiency indicates a very high correlation between rate of gain and feed efficiency. The Alberta program does not provide for feed records to be taken because, with home testing, it is difficult to get accurate records of feed consumption. Work done at the University of Alberta indicates that feed efficiency figures could be misleading unless the calves are practically all the same weight at weaning. Heavier calves require more feed for maintenance than light calves, so accurate feed efficiency records cannot be taken unless they are taken for the period it takes the calves to go from one given weight to another.

PRINCIPLE FEATURES OF THE ALBERTA PROGRAM

The complete performance testing program in Alberta is outlined in the brochure **The Federal-Provincial Beef Cattle Performance Testing Program in Alberta**. The principle features of the program are:

1. The policy is designed to assist beef cattle breeders to identify and select, within a herd, breeding stock of high calibre for both type and performance.
2. The program, in Alberta, is a home test designed to cover the whole herd.
3. The calves are weighed at weaning, as close to 205 days of age as possible.
4. Calves are accepted in groups of not less than 5 of one sex and not more than 90 days range in age within a group.
5. The feeding test covers 160 days and does not allow for an adjustment period after weaning. Potential breeding animals shall not be fed or implanted with hormones at any time prior to or during the feed test.
6. Any calf raised on a nurse cow or foster mother is calculated as a separate group from the rest of the calves.
7. The report to the breeder, upon the completion of the feeding test, contains the following information:
 - (a) adjusted 205 day weight
 - (b) weaning index
 - (c) average daily gain during feed test period
 - (d) index of average daily gain during feed test period
 - (e) adjusted 365 day weight
 - (f) yearling index
8. The information on a herd is confidential between the Department and the breeder. The breeder receives a detailed report of the results on his herd and can release the information privately or publicly as he sees fit.

RESULTS AND OBSERVATIONS OF THE 1969-1970 PROGRAM

Purebred Section

Weaned weights were taken on 397 herds for a net increase of 177 over the previous year. A total of 14,625 head were weighed at weaning. Three hundred and seventy-eight (378) herds and 11,605 head completed the test.

Commercial Section

This year 101 herds and 6,293 head were enrolled in the commercial section of the R.O.P. test. This is a little more than double the number enrolled on the program last year.

TABLE I
RESULTS OF 1969-1970 R.O.P. PROGRAM (PUREBRED SECTION)

MALES					
Weaning		Feed	End of Test		
No.	Adj. 205 day wt. lbs.	A.D.G. lbs.	No.	Wt./day of age lbs.	Adj. 365 day wt. lbs.
Aberdeen Angus 1938	485	1.94	1537	2.14	797
Hereford 3733	492	1.99	2991	2.17	811
Shorthorn 545	464	1.85	483	2.08	765
Charolais 1029	590	2.56	439	2.73	1019
Hays Converters 34	606	2.77	33	2.83	1053
Galloway 14	436	2.16	13	2.11	784

FEMALES					
Weaning		Feed	End of Test		
No.	Adj. 205 day wt. lbs.	A.D.G. lbs.	No.	Wt./day of age lbs.	Adj. 365 day wt. lbs.
Aberdeen Angus 1906	440	1.31	1609	1.74	651
Hereford 3530	450	1.39	3041	1.80	676
Shorthorn 525	419	1.34	468	1.71	635
Charolais 1309	536	1.70	991	2.16	811
Hays Converters 62	573	—	—	—	—
Galloway —	—	—	—	—	—

PROCEDURES AND METHODS

The Alberta program asks the breeders to shut their cattle off water 7-12 hours prior to the final weighing. Again this year there was almost 100% co-operation from the breeders. When only taking one weight for final weight, we feel shrunk weights are far more reliable in predicting the performance ability of an animal.

Rations Fed

No standard ration was fed by the breeders participating in the performance test program. Each breeder fed a ration he considered suitable for his purpose.

The amount of grain fed varies from nil to self-feeding. The breeders are encouraged to feed a growing ration. Very few of the animals on the home test had more "fit" than is desired at this stage of their life.

Adjusted Weaning Weight (205 days)

The adjusted 205 day weaning weights are calculated using the following formula:

Adj. A.D.G. to weaning × 205 days + birth weight

Correction factors are required to adjust performance of calves from two to five year old dams to a level of performance equivalent to calves from mature dams. These factors are added to A.D.G. to weaning in accordance with the following table:

Age of dam (to nearest year)	2	3	4	5
Aberdeen Angus ----	0.21	0.13	0.07	0.02
Hereford -----	0.28	0.18	0.10	0.04
Shorthorn -----	0.18	0.10	0.05	0.01
Galloway -----	0.30	0.17	0.07	0.01
Charolais -----	0.24	0.17	0.11	0.06
All others -----	0.25	0.16	0.09	0.04

Where actual birthweights were not taken, the following assumed birthweights were used:

	Male	Female
Aberdeen Angus -----	65 lbs.	60 lbs.
Hereford -----	75 lbs.	70 lbs.
Shorthorn -----	70 lbs.	65 lbs.
Charolais -----	75 lbs.	70 lbs.

With results of the Canadian Conception to Consumer Program now available the birthweights for Charolais calves will be revised for next year's program.

Average Daily Gain on Feed

The A.D.G. on feed is calculated using the following formula:

Wt. at end of test — weaned wt.
————— = A.D.G.
No. of days on feed

Weight Per Day of Age

Weight per day of age is calculated as follows:

Wt. at end of test
————— = wt./day of age
Age in days

Weight per day of age is calculated to determine the animal's actual performance from birth to end of test with no correction factors being applied.

Adjusted Yearling Weight (365 days)

The adjusted 365 day weight is calculated using the following formula:

A.D.G. on feed × 160 days + Adj. 205 day wt. = Adj. 365 day wt.

As seen by the formula the Adj. 365 day wt. includes the Adj. 205 day wt. Therefore, adjustments made for age of dam at weaning are passed on and included in the 365 day wt.

When the ages of the animals are adjusted to 365 days there is about 130 lbs. difference between the top third and the bottom third of the animals in most herds. Performance records can be used to select those animals with the most genetic potential for improving growth.

USE OF RECORDS IN ANIMAL SELECTION

1. Why Use Records

For a consistent approach to a livestock breeding program it is necessary to tie the selection of breeding stock to a measurable trait. Only by the use of a measurable trait can consistent improvement be expected over several livestock generations. Weight for age is a trait that is easily measured in a beef breeding program. This trait is also positively correlated with other economic traits such as feed efficiency, muscling, hardiness in the environment it has performed in, and others. Therefore, the wise use of performance records is a recommended procedure in a sound livestock breeding program.

2. Rate of Gain Expressed as Index

Each animal is indexed on its gain to weaning, gain on feed, and lifetime gain. The index is an expression in percentage of how the individual performed in its group. One hundred (100) is average, 120 is 20% above average and 80 is 20% below average. The index is calculated within each herd, therefore, management is minimized, as all the calves in each group are treated the same. Setting of standards of 2 or 2.5 lbs. per day should be avoided in favour of the index. The lifetime yearling index will indicate the growthiest animals in each herd. Comparisons of gains between herds should not be made as management and environment vary from place to place, which makes accurate evaluation of performance extremely difficult.

HOW TO USE PERFORMANCE TEST RECORDS

1. Satisfy yourself that the quality of the herd you are buying a bull from is sufficiently high to improve your herd.
2. Using the Yearling Index (Adj. 365 day wt.), identify those animals with the highest indexes.
3. The Adj. 205 day index and feed index will help in determining the growth pattern of the animal. A high index in both of these columns is preferable.
4. Select from the high performing group, those animals which come closest to meeting your selection requirements of other traits.

CONFORMATION

The trim type of cattle that are popular today are those that have little waste in the neck, brisket, middle and flank regions, and these cattle can be selected through a performance test program. Select for trimness from the top performing animals so that growth rate is not sacrificed for trimness.

Tables II and III are a list of breeders participating in the Performance Testing Program.

TABLE II
BREEDERS ENROLLED IN PUREBRED SECTION OF R.O.P. TEST

		No. Calves Completed Test		No. of Years Tested
		M	F	
Aberdeen Angus Breeders				
Albert, Tim	Benalto	5	1	2
Alberta Agricultural and Vocational College	Fairview	10	14	11
Akitt, R. A. (Bertlane Farm)	Eckville	4	5	1
Armitage, T. W.	Kinsella	27	29	4
Armistead, C. K.	Onoway	13	9	4
Armistead, K. C.	Box 56, Onoway	13	11	4
Armstrong, Grant	Botha	4	6	2
Atkinson, Donald E.	R.R. # 3, Lacombe	11	24	5
Beaulieu, Louis	Fairview	15	8	4
Beck, Charles	Worsley	13	6	3
Bradshaw, Dave	Box 1149, Innisfail	28	32	2
Brown, A. G. & Son	318 - 26 St. S., Lethbridge	3	3	1
Buchanan, D. R.	Pincher Creek	23	31	2
Bunney, Arthur	Forestburg	3	29	2
Camilla Stock Farm	R.R. # 1, Morinville	18	27	8
Charlton, Keith	Box 28, Bowden	28	9	2
Chiswell, R. A.	Box 1029, Lacombe	16	24	7
Clark, Ronald	Stauffer	7	7	2
Clarke, James F.	Box 89, Sedgewick	17	11	2
Cluff, Clarence	Box 400, Coaldale	1	2	7
Cross, W. E.	Box 175, Vermilion	12	17	1
Dixon, Don	Box 562, Valleyview	3	13	1
Dry Grass Farm	R.R. # 4, Tofield	3	7	1
Erdell, G. R.	Box 507, Mayerthorpe	19	25	5
Fallis, R. O.	Box 236, Alliance	17	17	2
Flaherty, Pat	Box 266, Myrnam	17	14	1
Flint & Flint	New Norway	23	15	11
Flying Red Wheel Ranch	Winterburn	28	26	3
Francis, Reed	R.R. # 2, Ardrossan	6	2	1
Fraser, R. C. & Son	High River	N/C	N/C	1
Gand, L. E. & Horne, A. G.	Box 478, Drayton Valley	9	3	1
Gibb, K. S. & K. W.	Killam	10	24	1
Gibson, Frank H.	R.R. # 3, Vermilion	18	6	1
Good Brothers	R.R. # 4, Red Deer	14	18	7
Goode, James	Box 1626, Wetaskiwin	N/C	N/C	1
Graham, Jack	Box 722, Rimbey	12	14	1
Graham, L. W.	R.R. # 1, Penhold	6	4	11
Grandview Farms	Killam	16	24	1
Griffiths, Ralph	Box 353, Coronation	24	24	6
Grosfield, Don A.	Duchess	7	10	2
Hambley Brothers	R.R. # 3, Eckville	23	33	1
Harries, Hu	8631 - 109 St. Windsor Bldg., Edmonton	27	21	1
Hart, Orrin	Box 578, Claresholm	36	33	11
Hart, Raymond H.	Claresholm	25	20	9
Hay, Raymond T.	Box 1061, Wetaskiwin	5	3	1
Heatherbrook Farms	Lacombe	44	31	5
Hesse, Joseph	R.R. # 2, St. Albert	16	15	1
Highland Stock Farm	R.R. # 1, Calgary	58	91	11
Hochstein, Gerald	Pincher Creek	44	38	6
Hochstein, Leonard	Box 400, Pincher Creek	42	43	11
Hoffman, Emil & Irene	Box 785, Medicine Hat	7	5	1
Hopper, C. R.	R.R. # 1, Priddis	21	19	3
Howg, Norman	Enchant	5	7	1
Jackson, R. T.	Bremner	6	9	1
Jensen, R. W.	Ferintosh	16	4	1
Johnson, C. L. & K. A.	Box 85, Sedgewick	15	12	2

			No. Calves Completed Test		No. of Years Tested
			M	F	
Kennedy Bros. -----	Islay	31	7	1	
Knowles, Leo & Herbert -----	Byemoor	28	31	5	
Koch, Peter -----	Vega	1	2	2	
Kolesar, Edmund P. -----	Aden	N/C	N/C	2	
Lamar, Harold & Dorothy -----	R.R. # 4, Red Deer	0	8	1	
Layton, James L. -----	R.R. # 4, Rimbey	13	21	3	
Mantler, James -----	Box 515, Coaldale	7	4	1	
Martin, & Martin -----	Box 164, Therien	8	12	7	
Merill, Mark -----	Hillspring	16	13	5	
Michael, N. & Harley -----	R.R. # 1, Clive	11	14	3	
Millhaem, R. E. -----	Box 195, Warner	16	15	1	
Milne, W. F. -----	R.R. # 1, Red Deer	11	7	1	
Moltzan, Wm. & Julius -----	Bashaw	35	18	6	
Molzan, Ed -----	Barrhead	10	17	5	
Muenchrath Bros. -----	Rockyford	13	16	2	
Mullin, John F. -----	R.R. # 3, Wetaskiwin	6	7	3	
Munton, Stan -----	Box 53, Champion	7	1	1	
MacDonald, Ian & Mary -----	Fairview	N/C	5	1	
MacDonald, J. R. -----	High River	11	0	1	
MacKenzie Angus Farms -----	Drayton Valley	6	12	1	
MacKenzie Bros. -----	Mountain View	N/C	N/C	3	
MacKenzie, Mary -----	Box 400, Coaldale	4	3	7	
**MacKenzie, R. D. -----	Mountain View	8	12	3	
McBride, Bud (Riverbend Farm) -----	Benalto	11	20	2	
McCullough, R. V. -----	R.R. # 1, Clive	5	12	8	
McLeod, Dr. D. M. -----	Brooks	18	19	4	
Nesbitt, W. J. -----	Box 701, Rimbey	5	5	2	
Oldtown Stock Farm -----	Box 89, Midnapore	13	17	3	
Olson, I. H. -----	Box 62, Beaverlodge	11	3	2	
Pride Valley Farms					
(George S. Brady) -----	Box 66, Ft. Assiniboine	11	16	3	
Putman, R. D. & C. D. -----	R.R. # 1, Bon Accord	4	3	1	
Puzey, H. W. -----	Woking	9	—	1	
Puzey, Vernon -----	R.R. # 2, Red Deer	9	7	1	
Rash, Howard L. -----	Taber	8	17	2	
Reich, G. -----	Bashaw	14	4	11	
Salt, G. R. -----	Box 28, Cardston	23	15	8	
Sera, Alex -----	Coaldale	13	10	4	
Shantz, Burt -----	R.R. # 4, Wetaskiwin	4	3	1	
Simonson, Harold & Roma -----	R.R. # 2, Wetaskiwin	—	13	4	
Slezina, Frank -----	Box 52, Coaldale	14	16	8	
Spady, Harold P. -----	Alliance	9	9	1	
Spady, J. P. & Lorne -----	Alliance	10	12	3	
Spady, Lorne D. -----	Alliance	3	1	1	
Spady, Roger -----	Alliance	3	2	2	
Spady, Thomas J. -----	Alliance	15	19	2	
Stone Ranches Ltd. -----	Madden	17	17	1	
Thompson, James -----	Delia	15	8	2	
Trowbridge, F. A. -----	Box 157, Ft. McLeod	43	59	5	
Uneeda Ranches Ltd. (E. J. Noad) -----	Box 1, High River	15	14	1	
Virginillo, Jerry -----	Box 803, Lethbridge	11	14	1	
von Meerheimb, Thomas -----	Rochfort Bridge	4	—	1	
Warehime, A. F. -----	R.R. # 2, Barrhead	13	7	1	
Warrilow, W. H. -----	Minburn	21	24	1	
Willes Bros. -----	Vermilion	43	51	11	
Woodlawn Farms -----	Wetaskiwin	29	33	4	
Wyman, O. D. -----	R.R. # 1, Bon Accord	13	10	1	
Young, George -----	Box 99, Evansburg	6	10	1	

** Denotes Red Angus

		No. Calves Completed Test		No. of Years Tested
		M	F	
Hereford Breeders				
*Abell, W. W. -----	Box 777, Taber	20	26	10
Aby, F. J. & Son -----	Box 6005, Stn. C., Edm.	17	19	1
Arntzen, L. -----	Sedgewick	7	5	1
Balog, Louis W. -----	Milk River	8	4	1
Balog, Steve -----	Milk River	25	30	3
Bassani Bros. -----	Naples	17	N/C	2
*Beck, Carl D. -----	Duchess	1	2	3
*Benedix, A. W. -----	Airdrie	7	26	11
Bennett, J. C. & Sons -----	Box 68, Airdrie	24	32	3
*Benson, Kenneth E. -----	R.R. # 2, Westerose	12	6	1
Berg, L. -----	Sedgewick	13	13	7
Bertagnolli, Alex -----	R.R. # 3, Rocky Mt. House	9	8	1
Beynon, George -----	Esther	17	15	3
Bills, William O. -----	Box 8, Marwayne	3	3	1
Blair Ranches Ltd. -----	R.R. # 4, Calgary	6	3	1
Blume Ranches Ltd. -----	Box 55, Castor	67	64	1
Blume, Ruben -----	Box 28, Castor	18	10	1
Bochanesky, Alex -----	Redwater	6	9	1
Bodnar, Lorne M. -----	Nestow	11	—	1
Bolduc, Wm. -----	Lomond	65	53	7
Bonertz, E. J. & H. M. -----	Box 387, Pincher Creek	25	33	7
Borle, Wilfred -----	R.R. # 1, Gunn	2	2	1
*Bricker, D. J. -----	R.R. # 7, Calgary	8	8	1
Brink, Klass -----	Bentley	7	5	2
*Brost, Alfred & Sons -----	Box 124, Irvine	28	26	1
*Brown, Howard -----	Tofield	12	30	5
Brown, Ronald A. -----	Tofield	26	28	2
Burki, L. J. & Son -----	Sangudo	15	22	9
Busmann, Stewart -----	Box 98, Rockyford	—	6	1
Butterwick, George & Sons -----	Brownfield	17	0	1
Calder, John A. -----	Aden	6	9	1
Cappelle, A. -----	R.R. # 1, Gunn	8	13	1
*Cholach, Bill -----	Thorhild	4	8	1
Chrenek, Bert -----	Sexsmith	5	—	2
Chrenek, Matt -----	Box 64, Sexsmith	5	9	6
Church, Bert C. -----	Balzac	24	32	8
*Clayton, Barrie -----	R.R. # 7, Calgary	9	8	1
Cole, Floyd L. -----	New Norway	17	12	1
*Cormie Ranch Ltd. -----	Tomahawk	55	149	5
*Cossey, Ralph J. & Sons -----	R.R. # 4, Tofield	11	8	1
*Craig, Harry G. -----	Bentley	2	13	7
Cross, J. S. -----	Box 895, Vermilion	50	25	1
Cutler, Charles -----	Box 461, Lacombe	28	—	11
*Dammann, Lawrence K. -----	Killam	8	6	1
Davis, Howard -----	Cawley	14	—	6
Doenz Bros. -----	Warner	20	—	3
Douglas, A. G. -----	Box 101, Penhold	7	5	1
Duggan, J. & Son -----	R.R. # 6, N. Edmonton	9	16	11
Edgar, W. J. -----	Box 550, Innisfail	20	20	1
*Elliott, Eric -----	Dewberry	7	12	1
*Elliott, Howard -----	Box 87, Newbrook	2	10	1
*Elliott, Jester & Sons -----	Dewberry	N/C	N/C	1
*Elvestad, Arnold & Sons -----	La Glace	17	10	3
Evans, Wilfred, Evelyn & Dale -----	Box 206, Three Hills	23	29	2
*Fossen, Keith -----	Forestburg	11	—	2
Fraser, D. M. & D. W. -----	Hussar	24	33	11
*Friedel, Bernard -----	Fairview	9	17	2
*Gabert, Richard N. -----	Box 7, Lamont	4	4	1
Garratt, R. C. -----	Box 31, Sangudo	5	2	4
*Girletz, Dave -----	Balzac	14	10	1
Glessman, R. C. -----	Naples	7	9	4
Gossling, Albert R. -----	Box 1003, Brooks	9	15	1

			No. Calves Completed Test		No. of Years Tested
			M	F	
*Grech, A. M. -----	Mannville		7	7	1
Grinde, G. -----	R.R. # 2, Bluffton		—	8	1
Gyori, L. J. & Sons -----	R.R. # 1, Rimbey		15	15	3
Haney Farms Ltd. -----	Picture Butte		28	35	6
Hansons Bell L Ranches -----	R.R. # 4, Calgary		41	32	1
*Hanson, Don (Birdseye Ranch) -----	Box 534, Cardston		7	—	1
Hanson, Leslie J. -----	Box 413, Viking		13	19	6
Hardy, J. R. -----	R.R. # 1, Airdrie		4	5	1
*Hartz, Sam -----	Northmark		14	14	2
*Heichert, W. -----	Box 421, Alix		8	12	3
Henderson, R. A. & Son -----	Forestburg		39	29	2
Henderson, W. T. -----	Forestburg		21	21	2
Hide, Jim -----	Box 305, Westlock		5	5	1
*Hoffman, Lorne -----	Stavely		8	17	1
Holmes Bros. -----	Bentley		26	19	5
*Hrdlicka, Dr. J. -----	Daysland		5	2	2
Hunt, David J. -----	De Winton		40	34	7
Huston, Murray -----	Sibbald		23	24	6
Innes, Andy -----	Box 51, Sexsmith		7	7	4
Irwin Ranches Ltd. -----	Box 310, Innisfail		9	10	2
*Jaburek, C. Albert -----	R.R. # 1, Falun		1	15	1
*Jackson, Emory -----	Balzac		23	16	5
Jenkins Ranch -----	Twin Butte		48	53	11
*JJB Polled Herefords (Dr. Jim Brown) -----	Vermilion		12	20	3
Johnson, Rueben -----	Box 70, La Glace		11	7	7
Jones Hereford Ranches Ltd. -----	Balzac		47	53	1
Jones Stanley S. & Son -----	Balzac		28	24	1
Kallal Hereford Ranch -----	Tofield		28	—	11
Kay, Tom -----	Botha		9	31	1
Knezevich, Daniel -----	Rycroft		1	12	2
*Knull, A. M. & Son -----	Leduc		24	9	1
Kupsch, John & Son -----	Barrhead		6	—	2
*Lakeview Farm -----	Box 623, Lloydminster		3	3	10
*Larsen, C. A. -----	R.R. # 4, Calgary		7	8	1
*Lentz, John -----	Dunmore		18	9	1
*Leslie, W. T. -----	Sedgewick		—	17	8
*Letts, Park -----	Westlock		24	19	5
*Little, Bob -----	Bluesky		14	8	2
Longshore, D. E. -----	Byemoor		40	27	2
Lonely Pine Stock Farm -----	Tomahawk		3	3	1
Lougheed, Robert -----	R.R. # 3, Red Deer		16	20	1
*Loughridge, Stan -----	Alix		13	8	4
Lyseng, Vern & Sons -----	Armena		8	11	1
*Maier, Don -----	Lomond	N/C	N/C	N/C	1
Manalto Holdings Ltd. -----	Box 2250, Calgary		20	23	2
Matejka, A. & Sons -----	Box 819, Ponoka		21	27	2
*Medd, W. G. & Son -----	Box 70, Tomahawk		6	12	2
Midtdal, Allen Lee -----	R.R. # 1, Westeros		9	10	6
Midtdal Bros. (Gordon) -----	R.R. # 1, Westeros		10	10	1
Midtdal Bros. (Roy) -----	R.R. # 1, Westeros		12	14	6
*Miko, Leo -----	Box 7, Evansburg		8	8	1
Miller, C. H. & Son -----	Box 190, Ft. McLeod		18	10	1
Minchau, Ruben -----	R.R. # 1, Leduc		16	17	1
*Moore, John R. -----	Tofield		6	7	1
Morris, Doug -----	Box 1265, Innisfail		15	10	7
McIntyre Ranching Co. -----	Box 700, Lethbridge		78	68	11
*Neitz, Harry H. -----	Stettler		12	5	1
*Nelson, Gordon -----	Mayerthorpe		17	20	11
Newton, Ed -----	Del Bonita		23	16	5
Noble Bros. -----	Okotoks		8	8	1

			No. Calves Completed Test		No. of Years Tested
			M	F	
Oatway, C. N. -----	Box 1298, Lacombe		21	9	11
*Ogilvie, R. A. -----	Box 1281, Lacombe		5	2	5
Oldfield, Archie -----	Vulcan		9	18	7
*Olson, Leonard L. -----	Box 383, Redcliff		5	—	1
Pahl, Harris -----	Box 61, Medicine Hat		6	9	1
Parker, Alton -----	Box 34, Three Hills		10	7	3
Parry, C. E. & Son -----	1719 Scenic Drive Lethbridge		20	25	4
Peacock, Cecil & Son -----	Alliance		7	2	1
Pearson, Reece H. -----	R.R. # 5, Calgary		18	21	11
*Peterson, Oscar -----	Marwayne		33	36	11
*PHD Cattle Co. -----	12 Harley Rd., Calgary		10	25	4
*Pohl, E. W. -----	R.R. # 1, Wetaskiwin		11	6	3
*Pohl, H. S. -----	R.R. # 1, Wetaskiwin		12	15	3
Porteous, Hume -----	R.R. # 2, Crossfield		9	13	10
Powlesland, Bert -----	Cochrane		38	29	9
Powlesland, G. R. -----	Del Bonita		30	27	1
*Queenie Creek Ranch -----	Box 320, Lloydminster		23	37	1
Radke Hereford Ranch -----	25 Kensington Ave. S.W., Medicine Hat		24	31	1
*Remittall Cattle Co. -----	Box 458, Olds		29	40	1
Resler, John -----	Bashaw		4	6	1
Rigaux, G. -----	Pincher Creek		3	7	1
Rinas, W. T. & Son -----	Alcomdale		7	16	3
Robert, Evan C. -----	Westlock		6	7	3
Santee, Edith -----	Ponoka	N/C	11		4
Savage, Wilbur & Agnes -----	R.R. # 3, Lloydminster		48	19	1
Schacher, I. -----	R.R. # 4, Tofield		13	6	1
Scheideman, R. & G. -----	Duffield		17	11	5
Scheltens, C. R. -----	Lac La Biche		11	10	2
Scholefield, H. J. -----	Crossfield		10	12	2
*Schwenk, Eugene -----	Talbot		3	3	2
Scott, Hugh -----	Fairview		11	10	11
*Shadee Lane Ranch -----	Winterburn		13	10	3
Simonet, M. & A. -----	Clandonald		26	23	1
Smith, R. T. -----	R.R. # 3, Ponoka		7	5	1
Smith, Warren -----	Box 384, Olds		23	25	1
*Smith, Wm. F. -----	Box 236, Empress		17	8	2
Snyder Farms -----	Box 1426, Drumheller		31	34	2
*Solterman, F. R. -----	Box 445, Alix		9	5	3
Solverson, Wm. -----	Box 1852, Camrose		21	17	1
St. Arnaud, Paul -----	Vimy		5	15	11
Stauffer Farms Ltd. -----	R.R. # 3, Eckville		21	25	6
*Steim, C. W. -----	R.R. # 1, Leduc		11	10	1
*Stott, George -----	Box 33, Pibroch		18	14	1
*Stringham, Mark -----	Milk River		41	72	11
Swainson, G. G. & H. A. -----	Sedgewick		7	8	1
Szybunka, Wm. -----	10635 - 127 St., Edm.		11	5	1
Templeton, G. A. -----	Box 761, Lethbridge		9	8	5
Thomas, M. E. -----	Magrath		9	18	1
*Thunder Barr Ranch (Ron Holland) -----	Barrhead		18	21	1
*Tilgen, J. N. -----	R.R. # 4, Ponoka		12	9	11
*Trefiak, Mike -----	Edgerton		12	9	1
Ulrich Hereford Ranch -----	Box 852, Claresholm		18	42	11
*Uneeda Ranches Ltd. -----	Box 1, High River		26	37	1
Veteran Colony -----	Veteran		16	17	1
Walker, G. E. -----	Gleichen		7	2	1
Wallace, A. J. -----	Westlock		17	—	2
Watmough, Art L. & James -----	Ft. McLeod		20	16	1
*Watt, Frank -----	Box 559, Rimbey		21	18	2
Weatherhill, Harold -----	Tofield		30	28	11
Westerlund, Doug E. -----	Esther		16	13	5

		No. Calves Completed Test		No. of Years Tested
		M	F	
Westview Farm Ltd. -----	Carstairs	12	24	8
Whiteside, R. W. -----	Penhold	14	14	1
Wilson, Fred -----	Dogpound	21	19	11
Wilson, G. M. & Son -----	Bentley	33	15	5
Wold Farms -----	Alliance	32	22	1
Yakoweshen, J. -----	Box 689, Lac La Biche	5	—	1
*Ziegler, Gordon E. -----	Vermilion	6	6	3
*Ziemmer, G. & Sons -----	Mayerthorpe	8	3	1

* Denotes Polled Herefords

Shorthorn Breeders

*Berg, Elmer -----	Box 57, Ardmore	9	0	4
Bidne, W. O. -----	Box 1456, Westlock	7	5	1
Boake, M. R. -----	Box 180, Acme	21	15	1
Boake, W. J. -----	Acme	15	17	3
Bolduc, L. D. -----	Stavely	5	15	1
*Broadacres Farms -----	R.R. # 1, Acme	12	19	1
Cammaert, Emile -----	Rockyford	5	13	4
Church, Howard -----	Box 1566, Camrose	5	7	1
*Cross, A. R. -----	R.R. # 8, Calgary	37	46	1
*Delfs Brothers -----	Woking	N/C	N/C	1
*Durie, David G. -----	Box 13, Lavoy	9	4	8
*Eberhart, Ezra E. -----	Box 271, Holden	2	8	1
Elliott, R. T. -----	R.R. # 4, Lacombe	10	5	4
Hyalta Cattle Co. (G. M. Erickson) -----	Box 188, Hythe	26	31	2
Fairholm, Albert -----	Pibroch	9	3	1
Fretwell, G. A. -----	Box 436, Lacombe	1	2	1
*Gillespie, G. A. -----	R.R. # 1, Bluffton	12	12	4
*Gillespie, Wm. B. -----	Bluffton	15	13	4
*Grasswold Farms -----	Rosebud	15	17	6
*Hamilton, T. G. -----	Innisfail	13	21	1
Hennig, Milton -----	Andrew	4	0	1
*Irwin Ranches Ltd. -----	Box 310, Innisfail	17	11	1
*Kjenner, Ken -----	R.R. # 1, Ponoka	14	5	1
*MacKenzie, R. D. -----	Mountain View	1	5	3
Maier, Paul -----	Box 272, Lamond	14	5	1
*Masson, J. -----	Cadogan	20	21	4
*Melenka, Wm. & Victor -----	Box 309, Andrew	15	5	1
Nerland, Orlan -----	Box 83, Gleichen	10	9	1
Peterson, Ralph -----	Box 202, Standard	27	7	1
*Pethybridge, Wm. -----	R.R. # 1, Tees	26	12	4
*Ratray Brothers -----	Box 464, Viking	11	9	1
*Remitall Cattle Co. -----	Box 458, Olds	8	11	1
*Robinson, Wm. L. -----	Box 418, Vermilion	9	17	1
*Schnell, Conrad -----	Castor	12	20	1
Sharp, Robert H. -----	R.R. # 4, Lacombe	13	24	5
Stone, Ken -----	V.A.V.C., Vermilion	2	5	1
Warnke, Emil H. -----	R.R. # 1, Wetaskiwin	10	9	1
*Wilson, D. M. -----	Killam	16	16	2
Wilson, Fred -----	Killam	14	11	2
*Wise, Berwyn & Leta -----	Irricana	9	5	1
*Wyllie, James -----	Vegreville	18	13	1
Young, Gordon -----	Cayley	6	0	1
Waller, R. E. -----	Box 363, Okotoks	13	12	3

* Denotes Polled Shorthorn

		No. Calves Completed Test		No. of Years Tested
Charolais Breeders		M	F	
Acadia Ranching Ltd. -----	Acadia Valley	18	31	1
Allen, Wilmer -----	R.R. # 3, Lloydminster	1	13	2
Anderson, Harvey -----	Erskine	12	15	4
Bargholz, J. Stanley -----	Brownfield	N/C	N/C	1
Bargholz, Ken -----	Box 17, Bentley	3	7	5
Bieber, Albert -----	R.R. # 3, Rimbey	26	33	2
B & J Farms Ltd. (J. B. Ball) -----	Brant	14	35	1
Borgal, E. R. -----	Priddis	8	7	4
Bosma, R. J. -----	Stettler	N/C	12	1
Breitkreuz, E. -----	R.R. # 1, Wetaskiwin	1	8	1
Bresee, Doug & Keith -----	R.R. # 4, Ponoka	2	34	2
Bullick, Wm. -----	Box 115, Coronation	1	7	1
Carlyle, D. R. -----	Box 82, Mirror	8	10	2
Chatenay, P. A. -----	# 102, 4700 - 55 St. Red Deer	3	5	1
Coates, E. W. -----	Compeer	13	29	1
Coates, L. R. -----	Altario	3	4	1
Cormie Ranch Ltd. -----	Tomahawk	16	99	1
Cripps, Lorne -----	R.R. # 1, Westeros	6	11	1
Cyr, E. P. -----	Pincher Creek	N/C	N/C	1
Danielson, Ola -----	Sedgewick	5	9	2
Deak Farm -----	Diamond City	27	20	2
Dewald, Norman -----	Altario	2	11	1
Dooleage, C. H. -----	Box 52, Castor	13	24	3
Eidsvik, Oscar R. -----	Box 247, Marwayne	5	23	1
Elliott, Marvin -----	R.R. # 3, Coronation	6	22	1
Elliott, Robert H. J. -----	4428 Charleswood Dr. N.W., Calgary 48	N/C	N/C	1
Evans, F. & Sons -----	Altario	—	33	1
Evashkevich, A. E. -----	Box 718, Kirriemuir	7	19	1
Fieldberg, J. Harold -----	Bindloss	8	29	2
Franks, Harold -----	Heinsburg	—	11	2
Glasier, Ed -----	Box 395, Coronation	5	21	3
Golley, Jim -----	Box 908, Ponoka	2	15	5
Good, Edgar L. -----	Acadia Valley	12	36	1
Gothard, R. -----	Nanton	3	7	5
Hansen, Wilfred -----	Raven	12	24	1
Hochhausen, Wilfred -----	Box 28, Strome	9	9	1
Hunt, W. G. -----	Endiang	12	5	2
JML Charolais Ranch -----	R.R. # 8, Calgary	33	24	1
Lewis, Gerald R. -----	Box 1191, Pincher Creek	N/C	N/C	2
Lusson, Henri -----	Box 148, Clyde	5	6	1
Maciborski, Carl -----	R.R. # 1, Winfield	5	16	2
Maciborski, Victor -----	Box 45, Alder Flats	3	5	1
Montgomery, Mrs. Doreen -----	R.R. # 2, Blackie	6	9	1
Montgomery, John D. -----	Box 146, Blackie	12	19	2
McLeod, Mel -----	Box 1328, Olds	4	6	1
McRae, Alastair -----	Coronation	12	23	1
McRae, Bruce -----	Box 898, Pincher Creek	2	6	1
Neitz, Harry H. -----	Stettler	1	26	1
Nelson, Bert -----	Stavely	—	3	1
Patterson, Dale -----	Rolling Hills	N/C	N/C	4
Price, Stan -----	Acme	—	6	1
Radke Bros. -----	R.R. # 1, Pickardville	22	14	3
Rath, Arthur -----	Dunmore	17	21	1
Rose, Ken -----	Big Valley	13	13	1
Rouse, R. L. -----	Box 536, Stettler	N/C	13	4
Rudell, Phil E. -----	Viking	1	3	1

		No. Calves Completed Test		No. of Years Tested
		M	F	
San Dan Charolais Farm	-----Erskine	4	10	4
Schneider, K. H.	-----Box 95, Ft. Saskatchewan	4	11	3
Sieger, Wilf	-----Box 478, Coronation	10	25	2
Stephenson, Robert C.	-----Bentley	1	4	1
Stewart, George	-----Falun	4	15	2
Stewart, Gordon	-----Westerose	1	6	2
Topilka, Pat	-----Elk Point	17	19	1
Trimble, H. A.	-----60 Rosery Dr., Calgary	43	4	12
Watson, Thomas	-----Box 3, Namaka	6	7	1
Watts, H. A. & Son	-----Scollard	10	13	2
Watts, Lorne	-----Box 56, Big Valley	5	16	1
Wiedemann, Victor	-----Box 127, Irvine	1	7	2
Woitt, Herbert	-----Box 1142, Wetaskiwin	8	11	3
Hays Converters Breeders				
Hays, Harry	-----8944 Elbow Dr., Calgary	33	N/C	2
Galloway Breeders				
Airth, J. R.	-----De Winton	13	—	1

TABLE III

BREEDERS ENROLLED IN COMMERCIAL SECTION OF R.O.P. TEST

Commercial Breeders

Name	Address	Breeds Represented	No. of Animals on Test	
			M	F
Allison, Ronald J.	Box 555, Veteran	HE, AA, CH	43	26
Alm, Wes A.	Claresholm	SM, LI, CH, HE	78	90
Alta Bar Ranch (Carl Wilson)	Rosedale	SM	1	5
Antelope Butte Ranch	Lundbreck	HE, AA	38	27
Armitage, J. H.	Kinsella	AA, HYB	59	52
Bargholz, Elton	Brownfield	HE	16	17
Barnes, Chas. W.	Hardisty	HE	15	15
Baumbach, Herbert	Box 28, Bentley	HE, HE x AA	21	17
Bedson, Edgar	Box 264, Castor	HE, AA, SH	19	18
Biggs, T. K.	Box 340, Coronation	CH, HE, SM, RA, AA, SH	82	100
Bignell, Eddie Jr.	Box 194, Youngstown	HE, SM, CH	20	31
Branden, Harold	Vega	HE	16	17
Bullick, Wm.	Box 115, Coronation	HE, CH	14	21
Bunbury, Bob	R.R. # 2, Alliance	HE, AA, SH, HO	28	21
Clarke, James F.	Box 89, Sedgewick	AA	25	13
Cameron, Lloyd	Lougheed	HE, AA, CH	7	7
Campbell, S. & Son	Box 176, Consort	HE, AA, SH	27	35
Carlyle, D. R.	Box 82, Mirror	SM	11	12
Case, David E.	Tomahawk	HE, SH	14	17
Cole, A. G.	R.R. # 3, Coronation	HE, CH	2	20
Cormie Ranch Ltd.	Tomahawk	HE	60	53
Craig, Harry G.	Bentley	HE	14	21
Crew Brothers	Kitscoty	HE, CH	46	58
Davis, Sidney	Box 529, Etzikom	AA, HE, SM	46	49
Dingerville, Louis	Cowley	AA, HE, SH	23	25
Dixon, Dr. A. A.	2215 Hope St., Calgary	SM cross	—	26
Feedma, John J.	R.R. # 1, Strome		21	12
Flying Red Wheel Ranch	Winterburn	AA	33	24
Fontaine, Leon	St. Paul	AA, CH, HE	—	26
Gabler, Richard	Rocky Mountain House	HE, RA	35	33
Gathey, Frank (Cross Bar Ranches Ltd.)	Box 430, Consort	HE, AA, SH, SM	88	80
Gechter, Frank	Box 68, Seven Persons		33	21
Grant, Russell	Killam	HE, AA	24	28
Grasswold Farms Ltd.	Rosebud	SH, AA	22	23
Gray, James F.	Box 818, Claresholm	HE, CH, SH	32	47
Green Brothers	Box 155, Halkirk	HE, SH, AA	11	6
Grinde, Albert	Holden	SH, CH, AA, HE	2	36
Grinde, George	Bluffton	HE, AA	—	19
Hardy, J. R.	R.R. # 1, Airdrie	HE, AA	7	14
Harrison, Ben	Tomahawk	HE	19	15
Heidecker, B.	Box 342, Coronation	HE	42	51
Holt, P. M.	Box 419, Viking	CH, HE, AA, HO, HYB	57	52
Hutchings, Jim & Son	Box 264, Consort	HE, AA	24	31
Jacobs, A. B.	Box 8, Cardston	HE, RA	58	55
Jamieson, George	R.R. # 2, Barrhead	Crossbreds	26	22
Johnson, C. L. & K. A.	Box 85, Sedgewick	AA	8	3
Keldsen, Ken	Box 126, Mayerthorpe	HE, AA, SH	42	42
Kettles, E. C.	Box 371, Pincher Creek	HE, CH	21	26
Larkspur Farm Ltd.	Dapp	AA, SH	65	60
Lee, Lloyd	Barrhead	CH, SG	7	11
Lee, Norman	Lundbreck	HE, SH, AA, HY	92	84
Lee, Terry	Throne	HE, AA	58	66
Lewis, Gerald	Box 1191, Pincher Creek	HE, CH	15	18
Lodgepole Ranch Ltd.	R.R. # 2, Rocky Mountain House		62	47
Lohrmann, L. W.	Scapa	HE, AA, CH	50	42

Name	Address	Breeds Represented	No. of Animals on Test	
			M	F
MacKenzie, K.	Foremost	AA	75	59
McDonald, Ralph	Box 624, Rocky Mountain House	HE, LR	4	—
McKinnon, Dan	Airdrie	HE, CH, AA, RA	59	63
McLaughlin Brothers	Box 671, Pincher Creek	HE	38	18
McRae, Bruce	Pincher Creek	AA, HE, CH	28	33
Masson, J.	Box 118, Cadogan	SH	11	8
Masterson, Earl	Box 148, Mayerthorpe	HE, AA, SH, HYB	35	44
Mitchell Bros. Ranches Ltd.	Box 794, Pincher Creek	HE	58	66
Nelson, Albert	Mountain View	SM cross	9	9
Nelson, Bert	Stavely	SM cross	10	9
Nelson & Carter	R.R. # 1, Penhold	AA, HE, SH	48	47
Nesbitt, W. J.	Box 701, Rimbey	AA, SH	21	15
Norris, H. D.	Sibbald	HE, AA	30	40
Olds Agricultural and Vocational College	Olds	HE, SH	16	18
Phelan, Harry	Fort Assiniboine	HE, AA	29	21
Pisony, Berwyn & Sons	Lundbreck	HE	98	115
Preugsches, Kurt	Box 537, Mayerthorpe	AA, HE, HO	11	15
Proehl, Alfred	Evansburg	HE	8	7
Quarter Circle X Ranches	R.R. # 2, Calgary	HE, AA	—	208
Reich, Otto C.	Tomahawk	HE, AA	16	16
Rettie, Clayton	Tiger Lily		3	7
Rieger, Dennis	Box 71, Medicine Hat	CH, HE	6	8
Roemmele	Claresholm	SM cross	—	5
S 7 Ranch	Box 473, Cochrane	HE cross	57	64
S N Ranch Ltd.	Box 430, Claresholm	SM, LI, HE, AA, BS, CH, SH	131	124
Scheffelmaier, A. H.	R.R. # 3, Coronation	HE	14	17
Schlachter, A. T.	Box 448, Bow Island	HE, AA	11	24
Schmidt, Leonard	R.R. # 2, Barrhead	SH, HE, AA	50	40
Schwenk, Eugene	Box 543, Coronation	HE	17	22
Shuttleworth, N. A. & Laux, Wm.	Brooks	CH cross	4	3
Simmental Breeders Cardston Ltd.	Box 278, Cardston	SM cross	—	36
Smith Feedlot (Frank)	Mountain View	SM cross	—	20
Smith (Travers) Ranch Ltd.	Box 278, Cardston	SM cross	13	15
Solverson, Bill	Box 1852, Camrose	HE	21	23
Stahl, Ed J.	175 - 9 St. S.W., Medicine Hat	SM, HE, CH, RA	—	86
Steiner, Wm. H.	Arrowwood	HE	29	25
Stuart, Glen	Pibroch	HE	13	12
Towers & Wearmouth	Box 236, Cochrane	HE	39	—
Turner, R. W.	R.R. # 2, Cochrane	AA	34	39
Varley & Long	Pincher Creek	HE, AA	49	40
Vigen, Robert J.	Box 118, Coronation	HE, AA	33	67
Warren, H. J. B.	Box 128, Lundbreck	HE, CH	73	61
Watson, Harold	Box 431, Cardston	SM cross	—	2
Webster, Fenton	Box 537, Cardston	SM cross	—	3
Williams, B. Y.	Cardston	SM cross	—	6
Wraight, Tom	Coronation	HE, SH	26	40

Legend

HE — Hereford
AA — Angus
SH — Shorthorn
CH — Charolais

RA — Red Angus
HO — Holstein
LI — Limosin
SM — Simmental

LR — Lincoln Red
HYB — Hybrid
SG — Santa Gertrudis

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